

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2004-113923

(43)Date of publication of application : 15.04.2004

(51)Int.Cl.

B01J 35/10  
B01J 23/656  
B01J 23/89  
C01B 3/40  
// H01M 8/06

(21)Application number : 2002-280326

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(22)Date of filing : 26.09.2002

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## (54) REFORMING CATALYST FOR HYDROCARBON, AND REFORMING METHOD OF HYDROCARBON USING IT

## (57)Abstract:

PROBLEM TO BE SOLVED: To provide a reforming catalyst for hydrocarbon suitable to various reforms of hydrocarbon with superior activity, and a reforming method of hydrocarbon using the catalyst.

SOLUTION: This reforming catalyst for hydrocarbon contains (a) manganese oxide, (b) alumina, (c) at least one kind of platinum group element selected from ruthenium, platinum, rhodium, palladium, and indium, and has an average pore diameter of 15 nm or more, a pore volume of 0.05 mL/g or more for pores with a diameter less than 50 nm, a pore volume of 0.02-0.3 mL/g for pores with a diameter 50 nm or more, and a pore volume of 0.02 mL/g or less for pores with a diameter 500 nm or more. Hydrocarbon is reformed using the catalyst.

## LEGAL STATUS

[Date of request for examination]

23.03.2005

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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